

# Apple-Works Forum

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Support for AppleWorks and ///EZ Pieces Users

# Letters to NAUG

## How to Import AppleWriter Files

Dear Cathleen,

Is there any easy way to edit and print my old AppleWriter files with AppleWorks?

Richard Massel  
Scarsdale, New York

*[Ed: AppleWriter stores its data in ASCII text files that you can import directly into AppleWorks or AppleWorks GS. If you use AppleWorks 3.0, indicate that you want to create a new word processor document and select "From a text (ASCII) file". Then choose the file you want to import from the list that appears on the screen.]*

*If you use AppleWorks 2.1 or earlier, follow the steps above but enter the complete pathname to the file. [Ed: See the article entitled "What AppleWorks Users Should Know about ProDOS Pathnames" in the AppleWorks Handbook: Volume One for more information about ProDOS pathnames.]*

*If you use AppleWorks GS, click on the "Volume" button and select the disk that contains the files you want to edit. Double click on the file name and it should load onto the AppleWorks GS desktop.*

*If these techniques do not work, you probably used an old DOS 3.3 version of AppleWriter; you will have to transfer the files onto a ProDOS disk before they are readable by AppleWorks or AppleWorks GS. To do the transfer, format a blank ProDOS disk and use Copy II+ to copy the AppleWriter files from your DOS 3.3 data disk onto the new ProDOS disk. (Copy II+ automatically converts from DOS 3.3 to ProDOS as it copies files.) Then follow the procedures described above.]*

The **National AppleWorks Users Group (NAUG)** is an association that supports AppleWorks users. NAUG provides technical support and information about AppleWorks and enhancements to that program. Our primary means of communicating with members is through the monthly newsletter entitled the **AppleWorks Forum**.

## Another Tip for Bifocal Wearers

Dear Cathleen,

The September 1991 issue of the **AppleWorks Forum** included a tip that makes it easier for bifocal wearers to use AppleWorks. Here's another approach to solving this problem:

Discount stores often sell full-lens single-power reading glasses that come in about ten different powers. (Mine are Magnivision glasses that I bought at a local discount drugstore for \$14.95.) I keep the glasses near my computer and find they provide exactly the correction I need to read the computer screen, keyboard, and documents I put on the desk next to the computer.

I don't know what an optometrist would say about these glasses, but I do not get headaches and don't feel any eyestrain. Perhaps its worth a try for my fellow members who wear bifocals.

Lyle Horwath  
Aloha, Oregon

## Member Wants AppleWriter Patch

Dear NAUG,

Does anyone know of a patch that lets AppleWriter use the extra memory on my Applied Engineering RamFactor card in my Apple IIe?

John Pankey  
St. Elmo, Illinois 62458  
(618) 829-5708

## AppleWorks Forum

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## Word Processor Work-Around

Dear NAUG:

A bug in AppleWorks 3.0 makes it difficult to change the top margin in the middle of a document. Here is a work-around that lets you overcome this problem. Follow these steps just before you print the document:

1. Save your work. You will be inserting Returns and New Page Commands in your document. Saving your work lets you edit your original document.
2. Issue an Apple-K to display the page breaks. AppleWorks will insert a line that looks like this at the end of every page:

- - - - - End of Page 1 - - - - -

It will also insert a "Soft Return" at the end of the text above the line. Issue an Apple-Z command if the Return Blots do not show on the screen. *[Ed: A "Soft Return" goes away when you make any changes to the document. A "Hard Return" is a Control-M character that is a part of the document.]*

3. Put the cursor on the Return just before the page break (that's the Soft Return) and press the Return Key to enter a Hard Return.
4. Issue an Apple-O and enter a New Page Command followed by a Top Margin Command. Be careful not to insert a new blank line immediately above or below the New Page and Top Margin Commands or you will create a whole new set of problems.

Shirley Hayes  
Denver, Colorado

## ImageWriter II Fix

Dear NAUG,

Many printer problems are caused by mechanical and electronic difficulties within the printer, not by AppleWorks or problems with your computer. Manufacturers often discover and correct these problems during the production life of the printer. Of course, this is true for Apple, which has made a

number of changes in their ImageWriter II printers. As a result, not everyone who owns an ImageWriter II has the same model printer.

Owners of early model ImageWriter IIs (Model A9M0310) should check for a loose wire on the printer that can produce inconsistent form feeds and incorrect page breaks. The wire, which connects to a metal "L"-shaped bracket to the left of the platen, is part of the mechanism that determines whether or not there is paper in the printer.

Check the integrity of this wire if you get incorrect or inconsistent page breaks. A loose or broken wire will cause the printer to generate page breaks in the middle of some pages. The exposed wire is easily broken but is easy to solder back into place.

Apparently Apple is aware of this problem and moved the wire during the ImageWriter II's production run. Late model ImageWriter IIs (Model A9M0320) retain the bracket but not the wire; apparently Toshiba (which makes the printer for Apple) moved the wire to a less exposed position.

Steve Beville  
Spartenburg, South Carolina

## NAUG Will Distribute Magazine Indexes

Dear Cathleen,

Is there any way that NAUG can collect AppleWorks data base files with indexes of magazines compiled by members? We would then have access to those indexes through the group's Public Domain Library.

I'll be the first to volunteer with my complete index of Computist, Open-Apple/A2 Central, inCider, and A+. I wonder if there are other useful indexes out there just waiting to be shared.

Robert D. Peterson  
Santa Ana, California

*[Ed: Thanks for this excellent idea, Robert; yours will be the first index in our library. Please send your disks to NAUG Public Domain Library, Box 87453, Canton, Michigan 48187. Now we'd like to hear from other members who will share their indexes with their NAUG colleagues.]*

# GS/OS 6.0: The Most Significant Upgrade Yet

by John Link

If hardware is a computer's body, then the operating system is its soul, and changes to the computer's operating system software impacts every user. Thus, Apple Computer's GS/OS 6.0 (officially called "System 6"), the new operating system for the Apple IIgs, is an important development for the Apple II community.

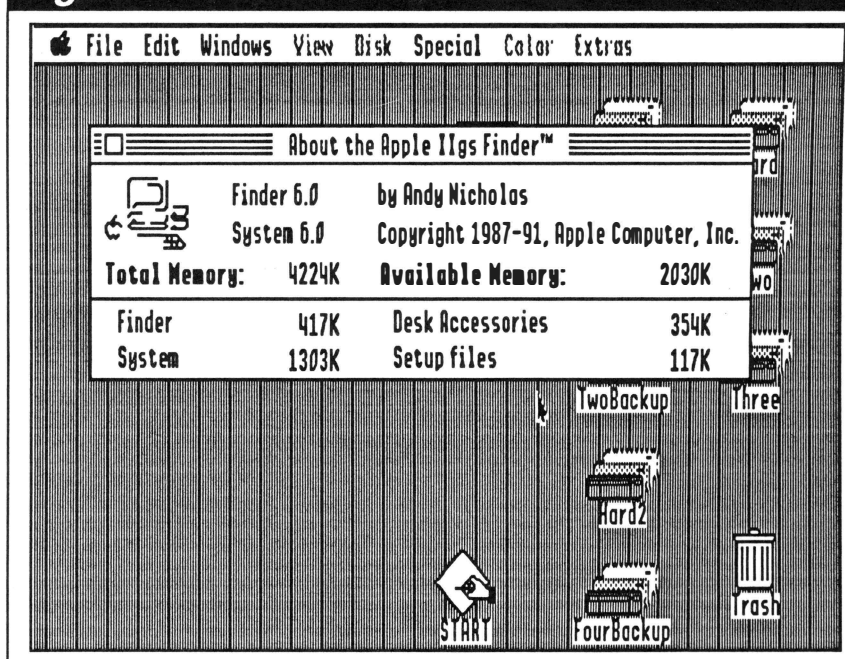
In a word, the new software is impressive. My work with a beta version of GS/OS 6.0 convinces me that this is Apple's most ambitious Apple II system software upgrade yet. Clearly, GS/OS 6.0 will make you glad you own an Apple II and extend the useful life of your computer. The new software so dramatically accelerates the operation of your system and adds so many important features to your computer that I lost count of the changes during my work with the product.

## Benefits All Apple II Owners

You might think that the introduction of a new system for the Apple IIgs would be of little consequence to the thousands of us who own Apple IIe and IIC systems. However, all Apple II owners will benefit from GS/OS 6.0 because the new system includes a major revision of ProDOS (ProDOS 2.0) and an enhanced version of BASIC (BASIC.SYSTEM 1.5). The ProDOS upgrade is important to AppleWorks users because AppleWorks runs under ProDOS, even on Apple IIgs computers.

The new versions of ProDOS and BASIC let me access more than two partitions on a hard disk, even when my SCSI card is not in slot 5. For example, I can now access all eight partitions on the hard drive attached to the SCSI card in slot 7 of my system.

Figure 1: Finder 6.0 "About Box"

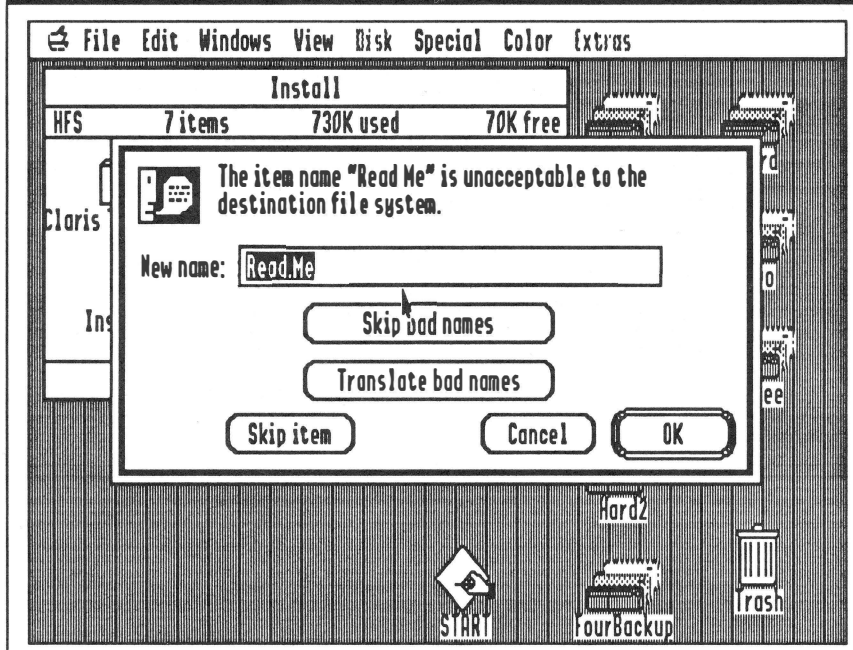


Running under earlier versions of ProDOS, AppleWorks, BASIC, and other 8-bit applications could only access the first two partitions on the drive. (AppleWorks can display only nine items on the list of devices when you select "A different disk" from the Change Current Disk Menu. ProDOS 2.0 lets me access the first four partitions directly from that menu. I access the remaining partitions by selecting "ProDOS directory" within AppleWorks and entering the correct volume name. I can access all eight partitions under BASIC 1.5, which maps partitions five and six to slot 2, and partitions seven and eight to slot 1.) The support for multiple partitions makes large and relatively inexpensive hard drives practical for all Apple II owners.

## Finder 6.0

The most profound improvements in GS/OS 6.0 are in its completely rewritten Finder. The new

**Figure 2: Finder 6.0 Correcting Mac Syntax**



Finder is faster, smoother, and offers more features than the current Finder.

For example, Finder 6.0 opens folders up to ten times faster than the current Finder. Window scrolling and cleanup speeds are faster. And the new Finder's "About Box" displays the amount of memory used in your system and how much is available for your applications (see *Figure 1*).

Finder 6.0 offers a Windows Menu that lets you choose any open window or close a window without bringing it to the front. The "Stack Windows" option arranges all windows in an orderly, easy to read, and easily accessed diagonal stack on the screen. Finder 6.0 also offers more keyboard command equivalents for mouse actions, which lets experienced users navigate between disks and folders quickly and easily.

Other features make navigation easier. For example, clicking on the title of a Finder 6.0 Window Bar displays all the folders between the window and the root directory. Releasing the mouse on a folder in the path will display its contents. The new Finder also lets you put folders on the desktop safely and leave them there indefinitely.

Finder 6.0 can read ProDOS, HFS (Macintosh), DOS 3.3, HS (High Sierra), and Pascal disks. The

new system recognizes and mounts all these disks automatically, and displays the disk's format in the first line of each window it opens for the disk.

The new Finder can initialize and duplicate Macintosh disks. It also copies files between Macintosh and ProDOS disks and offers to correct any "illegal" ProDOS file name on the Macintosh disk during the copying process (see *Figure 2*). That makes it easy to transfer data between Apple IIGs, Macintosh, and NeXT computers, all of which can read and write to HFS disks. [Ed: "HFS" (Hierarchical File Structure) is the name of the current Macintosh file system.] I assume that these features will work with 1.4MB Macintosh disks once Apple releases its new 1.4MB drives for the IIGs.

Finally, the new version of GS/OS automatically detects any disks you insert when an application displays a Volume Mount dialog. The system also ejects all removable media, including removable hard drives, when you power down.

### Apple IIGs and Macintosh

The GS/OS 6.0 Finder brings many of the advantages enjoyed by Macintosh users to the Apple IIGs. For example, double click on an AppleWorks document and the new Finder provides a "Locate" button that lets you display the SYS files mounted on your system. While the Finder knows that "APLWORKS.SYSTEM" is the default for an AppleWorks document, it lets you select any SYS file as the application to launch, and will remember your choice for future operations. That lets UltraMacros, Ampermacros, and SuperPatch CopyD users click on the appropriate file (ULTRA.SYST-EM, AMPER.SYSTEM, or COPYD.SYSTEM respectively) and launch their favorite AppleWorks accessories. This is a welcome improvement over the Macintosh Finder, which does not support this level of customization.

Double clicking on a GS/OS document sometimes works like the Macintosh Finder, sometimes not. For example, double clicking on an AppleWorks

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GS (AWGS) document launches AWGS and loads the file onto the AWGS desktop. Shift-clicking on multiple documents launches AWGS and loads all the selected files into memory.

Double clicking on a GraphicWriter III document invokes the Finder's "Locate" dialog. You tell the Finder where to locate GraphicWriter III and it launches the application but does not load the document into memory. Once the Finder learns the path to GraphicWriter III, you can double click on one of its documents and the Finder will launch the application.

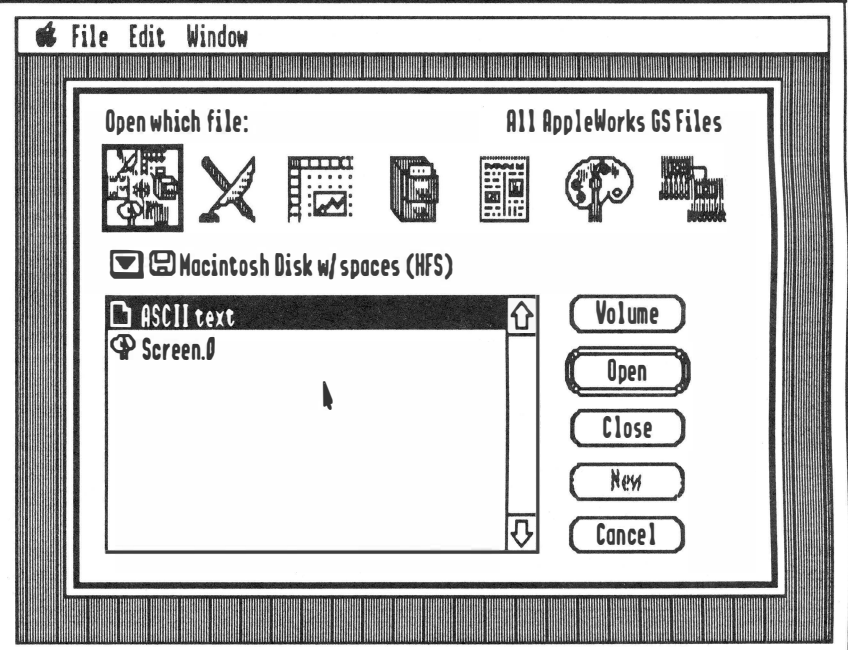
### Apple IIgs Connectivity

GS/OS 6.0 enhances the system's built-in "Standard File Tools" that programmers use to open and save files. As a result, programs such as AppleWorks GS, GraphicWriter III, and other 16-bit applications that use these tools automatically display the format of the current disk and a Path Menu that lets you change folders or volumes.

All GS/OS applications that use the Standard File routines can now open and save data directly on Macintosh disks. That greatly enhances the connectivity between the Apple II and Macintosh systems. For example, GS/OS 6.0 lets you read ASCII files from Macintosh disks directly into AppleWorks GS and thence into AppleWorks. It also lets you save AppleWorks GS files on a Macintosh disk and open the files directly with Macintosh applications that support data transfer with Claris' Xtend technology (e.g., such as MacWrite and ClarisWorks). You can also export data from AppleWorks GS into almost any Macintosh application by saving the data in ASCII format on a Macintosh disk and reading the data into the Macintosh program. (Figure 3 depicts AppleWorks GS opening a file on a Macintosh disk.)

You don't need to upgrade your GS/OS programs to gain this connectivity; programs that use the Standard File Tools such as AppleWorks GS, SuperConvert, GraphicWriter III, and the desktop module in Orca M automatically acquire this new functionality. ProSel-16 does not use Standard File.

**Figure 3: AWGS Opening a Mac Text File**



Thus, ProSel may recognize a Macintosh disk under GS/OS 6.0 but will not copy files to and from these disks.

### GS/OS Enhancements

GS/OS 6.0 includes significant enhancements to the internal workings of GS/OS. For example, character input and output is faster under GS/OS 6.0, and the BASIC.LAUNCHER program found in older versions of GS/OS is now built into both GS/OS and ProDOS.

The 5.25-inch disk driver in GS/OS 6.0 writes data more than 200 percent faster than the GS/OS 5.0.4 driver, and the new driver can read disks formatted under DOS 3.3 and Pascal. Users of 800K UniDisk 3.5 drives also benefit from a new, faster drive.

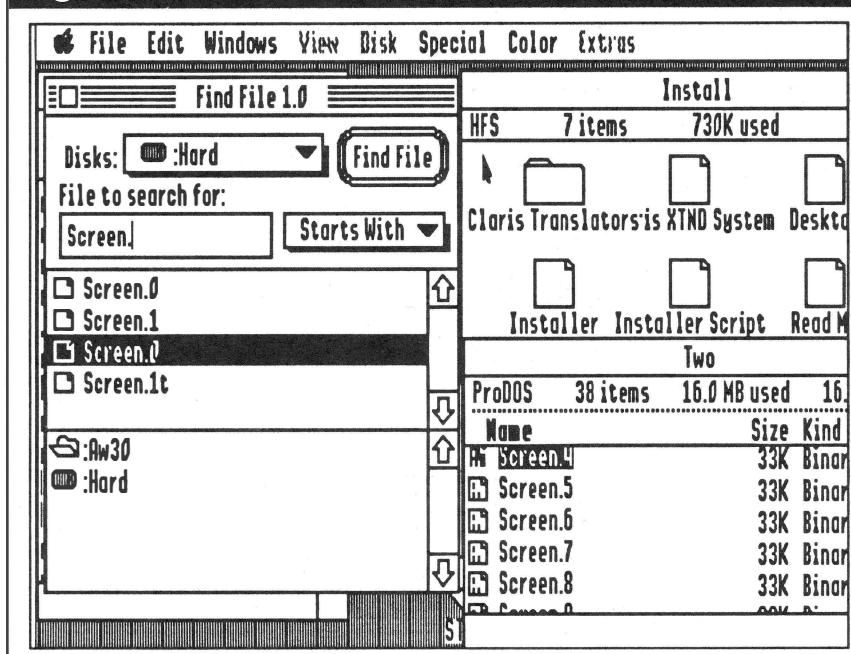
GS/OS 6.0 offers several new SCSI drivers, including an improved hard disk driver, scanner driver, tape driver, and several CD ROM and laser disk drivers. Of special note is a new printer driver that lets you use Apple's popular high resolution StyleWriter printer, but only with 16-bit applications such as AppleWorks GS running under GS/OS.

### AppleTalk, Accelerators, and LaserWriters

GS/OS 6.0 also boosts the performance of TransWarp GS-equipped systems connected to an AppleTalk network. GS/OS 6.0 implements



**Figure 4: Find File**



AppleTalk without using timing loops that are affected by accelerators. That lets TransWarp GS owners turn off IRQ and generates a 5-8 percent increase in system performance.

And GS/OS 6.0 is the first IIGS operating system that lets Zip GS owners use AppleTalk for printing and file sharing without dramatically reducing the speed of their system.

The new version of GS/OS also includes an improved ImageWriter emulator that can distinguish between the standard LaserWriters and new Personal LaserWriters. The new driver accommodates the personal printers by automatically compressing character spacing and page size constants slightly when it prints on a Personal LaserWriter.

### Desk Accessories

GS/OS 6.0 makes it easier to use your desk accessories. For example, the new system can alphabetize both the Classic Desk Accessory (CDA) and New Desk Accessory (NDA) menus.

The new General Control Panel in GS/OS 6.0 saves more non-standard settings (e.g. the Menu Blink setting) in BRAM (Battery-backed Random Access Memory); you do not have to reenter those settings each time you power up your computer.

The new system lets you use keyboard shortcuts to select your CDAs instead of forcing you to scroll through the list. For example, pressing the Option or Command Key and a letter key selects the first CDA in the menu whose title begins with the key you pressed. Press the Return Key to launch the accessory.

Other keyboard shortcuts let you close the front window of any application or NDA. And GS/OS 6.0 supports NDAs that use more than one window. That lets programmers expand the functionality of their applications.

Finally, GS/OS 6.0 offers several new NDAs, including Media Control, Find File, and a powerful, easy to use calculator that also translates decimal into hexadecimal numbers. I especially like Find

File, which is powerful, flexible, and easy to use. (Figure 4 shows Find File locating the screen shots used in this article.)

### CDevs become Control Panels

But the big news is the new graphic based "Control Panel 2.0", which lets you access your Control Panel Devices (CDevs; now called "Control Panels"). Each Control Panel appears in its own window. GS/OS 6.0 supports multiple Control Panels, keyboard selection of Control Panels, and provides wider displays for your Control Panel windows. Figure 5 depicts the screen after you open multiple Control Panels.

GS/OS 6.0 merges the features of the original Alphabet and Mouse CDevs into the General Control Panel. The new NetPrinter Control Panel controls all your AppleTalk printers. The Time Control Panel offers a better interface and can adjust for Daylight Savings Time automatically.

GS/OS 6.0 lets AppleShare users store their preferred printer choice in their own user folder. And there are four new Control Panels: FolderPriv (changes default privileges for network folders), MIDI, Namer (for network printers), and the most interesting, SetStart (which lets you use a simple

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point-and-click interface to set any application on any disk as the startup application).

### Font Management

GS/OS 6.0 offers enhanced font management. For example, the system lets you use larger fonts that require more than 64K of space on a disk. (Harmonie and Independence both produce their best results by using fonts that are four times larger than the desired output. GS/OS 6.0's ability to accept larger fonts dramatically enhances the functionality of these products.) The system comes with an extensive selection of large fonts that the Installer automatically adds to your \*/system/fonts directory.

Finally, GS/OS 6.0 lets you use keyboard equivalents to navigate through font lists and can display up to 24 (as opposed to 12) font sizes per family.

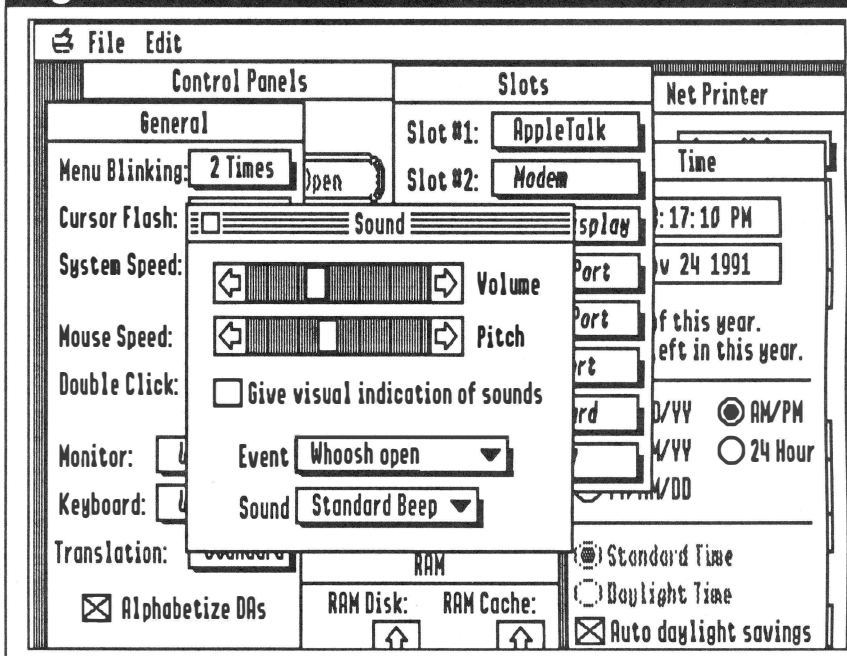
### Goodies Galore

GS/OS 6.0 comes with three new applications called Archiver, Teach, and a group of applications called "Universal Access".

Archiver is a versatile disk backup/restore utility that lets you back up just the blocks in use, the entire disk, any folder, group of folders, or files that meet criteria you specify. Archiver can compress data while doing volume backups and can save your data in a single file or copy it to a series of floppies, a hard drive, or a tape drive. Finally, Archiver can save your selection lists for reuse later.

Developers will appreciate Teach, which works like Teach Text on the Macintosh and which launches automatically when you double click on a "Read.Me" file created with the application. Teach can import AppleWorks, AWGS, and even MacWrite 5.0 documents and lets you convert these files into Teach documents, standard ASCII text files, or Installer scripts for the new Installer. Teach uses Standard File and can open files directly from Macintosh disks.

**Figure 5: GS/OS 6.0 Control Panels**



Universal Access is a collection of programs that make it easier for users with visual and other physical impairments to use their systems. For example, Mouse Keys and Sticky Keys make it easier to use the mouse and Command and Option Keys. Close-View magnifies the screen and can change black on white displays to white on black, or vice versa. Video Keyboard lets users who cannot press the keys click on a visual display of the keyboard with the mouse.

Finally, GS/OS 6.0 ships with an improved Installer that reduces disk swapping by a factor of ten or more. Double clicking on a script for the new Installer invokes the Installer, and the Installer can locate all scripts in the root directory of every mounted volume, regardless of the volume name.

### Installing System 6.0

Installing the new system is easier than ever. Proceed as follows:

1. If you installed and then disabled features such as AppleShare on your current system, Easy Install will install the new system with AppleShare enabled. You should start by removing all the drivers you installed but then disabled on your current system. Just open up the System Folder and drag those drivers to the trash, or to another folder for temporary storage.

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2. Boot your computer with the new Install Disk. That will launch the Installer.
3. Click on "Easy Install" from the Installer's startup screen. The Installer will determine the system software currently installed on the target disk and will determine if there is enough room to install the system. If there is room, the Installer will replace the existing system with GS/OS 6.0.

Now you will use the Custom Installer to install the HFS, DOS 3.3, Pascal drivers, and some accessories in the system. Proceed as follows:

4. Click on "Customize" from the Installer's startup screen. The Installer will display all the possible installations as a scrolling list located on the left side of the screen. Select and install each of the following:

Filesystem: DOS 3.3 FST

Filesystem: HFS FST

Filesystem: Pascal FST

5. The "Easy Install" option will not install the new applications and drivers not previously included in your system. You must select and install these features from the "Customize" menu. Choose any which interest you. Give special consideration to Archiver, Teach, Find File, Calculator, and fonts, which will be useful to many IIGS owners. SCSI Tape, SCSI Scanner, StyleWriter, Media Control, Close View, Easy Access, and VideoKeyboard also offer valuable enhancements to your system.
6. If you add a new piece of hardware to your system, such as a tape drive, scanner, or MIDI interface, launch the "Customize" module in the Installer and add the appropriate software resources to your system. Similarly, if you connect your IIGS to an AppleTalk network that includes Macintosh computers, you can install AppleShare on your IIGS boot disk and use the file sharing feature of Macintosh's System 7.

### Conclusion

It is clear that GS/OS 6.0 represents the most significant system upgrade yet produced for the Apple II. It is a flexible, easy-to-use system that promises

faster performance, support for larger disk drives, and increased inter-computer connectivity for your Apple II.

*[John Link is a Professor of Art at Western Michigan University. He is the developer of SuperPatch and is an AppleWorks consultant.]*

*[Ed: GS/OS 6.0 will be available from the NAUG Public Domain Library for \$25 plus \$2 s/h per order.]*

*NAUG will also offer a new Apple II ProDOS/ BASIC Disk that will contain only the new versions of ProDOS and BASIC.SYSTEM. The Apple II ProDOS/BASIC Disk will be available in 5.25-inch (\$4) and 3.5-inch (\$6) formats; add \$2 s/h per order.*

*Apple Computer plans to release GS/OS 6.0 during the first quarter of 1992. NAUG will ship immediately upon receipt of the master disks from Apple. NAUG will not deposit your check or bill your credit card until we ship your order. Foreign orders by credit card only; foreign shipping additional. Our licensing agreement with Apple lets us distribute disks only to NAUG members; include your NAUG membership number with your order.]*

## LockOut 2.0



**Tired of resetting Control Panels after students leave class?? READ THIS!**



LockOut has been upgraded to include automatic installation on file servers, hard disks, GS/OS floppies, and ProDos-8 floppies. It also features a printed, informative, and fun to read 40 paged manual. Hundreds of teachers in the US and Canada are using Lockout to save themselves hours of drudgery every week, by preventing students from changing the Control Panel settings on their IIGS computers. Priced at \$49.95 for manual and two 800k floppies, including site-license for all computers in a single building, postage included. Current owners may upgrade for \$24.95. Money back guarantee.

**SuperStuff**

**3382 Sandra Drive**

**Kalamazoo, Michigan 49004**

# ***DataLink IIEXPRESS Trade-In!***

*Trade-in your old clunker for the best combo on the market for only*

## ***\$219***

Applied Engineering announces an unbelievable modem trade-in offer.

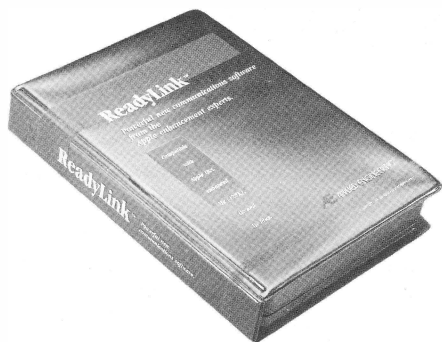
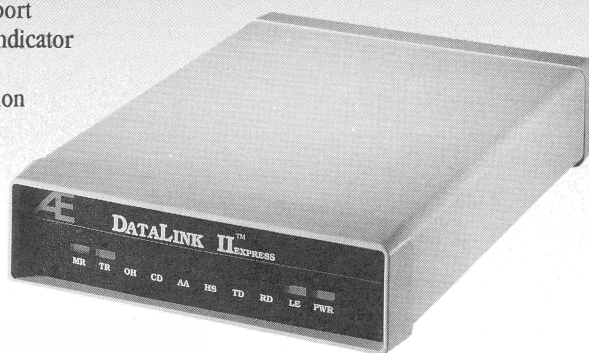
For a limited time, you can trade-in *any manufacturer's* modem and purchase a DataLink IIEXPRESS with V.42bis and ReadyLink communications software for **only \$219!**

**That's a \$259 savings!** And, you will be upgrading to the best modem on the market.

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### **DataLink IIEXPRESS (suggested retail \$379)**

- 100% Hayes compatible with extended AT command set support
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- X, Y & ZModem protocols supported
- DB-25 and Mini-8 ports
- Platinum colored, high quality aluminum die-cast housing
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- Five year parts and labor warranty backed by the industry leader for quality



### **And ReadyLink (suggested retail \$99)**

- Powerful communications software that works with mouse or keyboard
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- Supports XModem, XModem/CRC, XModem/ProDOS and YModem
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- Auto-learn macro feature "watches" and "learns" how to do it
- Given a value rating of "10" by IIGS Buyer's Guide

**DataLink IIEXPRESS** and **ReadyLink** are the premier telecommunications products available to Apple II owners. If you enjoy telecommunications, you'll want to upgrade your system to the best.

For more information, call (214) 241-6060.

To order, just send in \$219 and your old modem to:

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Dallas, TX 75234



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*The Apple Enhancement Experts.*



# A Data Base for Test Questions

by Stan Hecker

This month's article describes a data base template that makes it easy for teachers to create classroom tests and answer keys. *Figures 1 and 2* show portions of a test and answer sheet created with the template. The template was developed by Mary D. Bromann of Elmwood Park, Illinois.

## Limitations

Consider the following limitations before using the template to develop your tests:

1. The template only produces true/false, fill-in, and multiple-choice tests with five or fewer choices.
2. The stems of questions cannot contain more than three lines of text.
3. Prospective answers can contain no more than two lines of text.
4. The template accommodates up to 77 characters per line, which lets you print at 12 characters per inch with reasonable margins.

Fortunately, there are work-arounds for most of these limitations. For example, you can include up to six lines in the stem by eliminating the fifth choice in multiple-choice questions.

## Building the Template

Follow these steps to build the template. Save your work often as you proceed.

1. Start a new AppleWorks data base file called QUESTIONS. [Ed: A working template appears on this month's issue of NAUG on Disk.]
2. AppleWorks will display the Change Name/Category screen. Create the 18 categories listed in *Figure 3*.

The short category names in the template give

**Figure 1: A Portion of a Test**

1. According to Hawking (1988) the renormalization of partial theories of relativity is:  
A: accomplished by introducing infinities to cancel infinities.  
B: rather dubious mathematically, but seems to work in observable practice.  
C: shown by incorporating the uncertainty principle into relativity by adjusting gravity strength and the cosmological constant.  
D: All of the above.  
E: None of the above.
2. Which Apple //c key is used to make all letters capital letters?  
A: Shift Key  
B: Caps Lock Key  
C: Space Bar  
D: Control Key  
E: ESC (Escape) Key

**Figure 2: The Answer Key**

File: Questions  
Report: Answer Key  
(Number) Correct  
-----  
1. D  
2. B  
3. C

Page 1

you more room to type your entries on the AppleWorks screen.

"QS" stands for "question stem". Categories QS1-QS3 will store the stem of the question. Category "A" will hold the first line of text for choice "A". Category "XA" will contain the "eXtra choice A text" if you need more than one line for choice "A".

The "Subject(s)" and "Chapter" categories will help you find the items you want to include on the test. You will use the data in the "Correct" category to prepare the answer key.

3. Press the Escape Key, the Space Bar, and the Escape Key again to access the Review/Add/Change screen.

Now you will customize the single-record layout to make it easy to create items with the template.

**Figure 3: Starting the Data Base**

File: Questions		CHANGE NAME/CATEGORY	Escape: Review/Add/Change
Category names			
=====			
QS1	Chapter		
QS2	Date Written		Options:
QS3	(Number)		
A			Type category name
XA			Up arrow Go to previous category
B			
XB			
C			
XC			
D			
XD			
E			
XE			
Subject(s)			
Correct			
-----			
Type entry or use ⌘ commands			303K Avail.

Arrange the screen to allow more space after the "Correct:" category if you require students to write long answers to "fill-in-the-blank" questions.

5. Press the Escape Key to return to Review/Add/Change mode. Select either response to the "Cursor Movement?" question; both alternatives have the same effect on this template.

Now you will customize the multiple record layout to make it easier to number the items on your test. Proceed as follows:

6. Issue an Apple-Z to switch to multiple record layout.
7. Issue an Apple-L to indicate that you want to change the layout. Move the "(Number)" category all the way to the left and make it narrow. Then fill the rest of the screen with the "QS1" category. That will let you read the first line of the item when you put the items in order for your test.

**Figure 4: Customizing the Single-Record Layout**

File: Questions		CHANGE RECORD LAYOUT	Escape: Review/Add/Change
Return or arrows	Move cursor		
A and arrows	Move category location		
A-T	Turn inverse names on/off		
=====			
QS1:			
QS2:			
QS3:			
A:			
XA:			
B:			
XB:			
C:			
XC:			
D:			
XD:			
E:			
XE:			
Subject(s):			
Correct:	Chapter:	Date Written:	(Number):
-----			
Use options shown above to change record layout.			290K Avail.

## Report Formats

Next you will create the Labels Format Report you will use to generate your tests. Proceed as follows:

4. Enter an Apple-L to access the Change Record Layout screen, and use the Arrow Keys and Apple-Arrow Keys to move the category names to the positions shown in Figure 4.

Indenting the "QS" and answer categories limits the length of each line and will make the test look better on the printed page. Indent the "QS" categories four spaces from the left edge of the screen and indent the answers by eight or nine characters.

8. Issue an Apple-P command and create the Labels Report Format that appears in Figure 5. Name the report "Test".

AppleWorks 3.0 users can create the format from the current single record layout. Then delete the "Subject(s)", "Correct", "Chapter", and "Date Written" categories.

Move the "(Number)" category into its position in the upper left-hand corner of the screen. You will have to move the "QS1" category out of the way temporarily.

## My Favorite Template...

Move the "QS1" category so it overlays the "(Number)" category as shown in *Figure 5*. That spacing lets you prepare tests that contain 100 or more items.

9. Use the Apple-V command to print both the category name and the contents of the A, B, C, D, and E categories. A colon will appear next to each category name to show that the category name will print on the report.
10. Issue an Apple-O command and set the printing options as shown in *Figure 6*.
11. The Tables Report Format in *Figure 7* produces the answer key. Create a new Tables Format Report called "Answer Key" and use the Apple-D command to delete all the categories except "(Number)" and "Correct". Make the area for the "Correct" field wider if you write fill-in-the-blank questions.
12. That completes the template. Press the Escape Key to return to the single record layout and save your work. Then lock the QUESTIONS file. (Step-by-step directions for locking templates appears in the article entitled "How to Lock Your Templates" in the May 1991 issue of the *AppleWorks Forum*.)

### Using the Template

Preparing a test is a four-step operation:

1. Type your questions into the data base.

### Figure 5: Test Report Layout

```
File: Questions          REPORT FORMAT          Escape: Report Menu
Report: Test
Selection: All records

=====
(Num QS1
   QS2
   QS3
   A:
       XA
   B:
       XB
   C:
       XC
   D:
       XD
   E:
       XE
=====
-----Each record will print 15 lines-----
Use options shown on Help Screen                      302K Avail.
```

### Figure 6: Printing Options

```
File: Questions          PRINTER OPTIONS          Escape: Report Format
Report: Test
=====
-----Left and right margins-----
PW: Platen Width          8.0 inches
LM: Left Margin           0.7 inches
RM: Right Margin          1.0 inches
CI: Chars per Inch        12
CO: Columns                1
   Line width              7.3 inches
   Char per line (est)     75
   Char per col (est)      75
-----Top and bottom margins-----
PL: Paper Length          11.0 inch
TM: Top Margin            0.0 inch
BM: Bottom Margin         0.0 inch
LI: Lines per Inch        6
   Printing length         11.0 inch
   Lines per page          66
-----Formatting options-----
SC: Send Special Codes to printer          No
PD: Print a Dash when an entry is blank     No
PH: Print report Header at top of each page No
OL: Omit Line when all entries on line are blank Yes
KS: Keep number of lines the Same within each record No
=====
```

### Figure 7: Answer Key Report Layout

```
File: Questions          REPORT FORMAT          Escape: Report Menu
Report: Answer Key
Selection: All records

=====
--> or <-- Move cursor
> A < Switch category positions
--> A <-- Change column width
A-A Arrange (sort) on this category
A-D Delete this category
A-G Add/remove group totals
A-I Insert a prev. deleted category
A-J Right justify this category
A-K Define a calculated category
A-N Change report name and/or title
A-O Printer options
A-P Print the report
A-R Change record selection rules
A-T Add/remove category totals
=====
(Number) Correct L
-A----- -B----- n
                   1
                   7
=====
Use options shown above to change report format          182K Avail.
```

## Figure 8: A Multiple-Choice Question

```
File: Questions          REVIEW/ADD/CHANGE          Escape: Main Menu
Selection: All records

Record 1 of 1  (1 selected)
=====
QS1: According to Hawking (1988) the renormalization of partial theories
QS2: of relativity is:
QS3: -
      A: accomplished by introducing infinities to cancel infinities.
      XA: -
      B: rather dubious mathematically, but seems to work in observable
      XB: practice.
      C: shown by incorporating the uncertainty principle into relativity
      XC: by adjusting gravity strength and the cosmological constant.
      D: All of the above.
      XD: -
      E: None of the above.
      XE: -
Subject(s): COSMOLOGY, Hawking, relativity, unification, renormalization
Correct: D      Chapter: 10      Date Written: Oct 19 91      (Number):
=====
Type entry or use ⌘ commands          210K Avail.
```

## Figure 9: A True/False Question

```
File: Questions          REVIEW/ADD/CHANGE          Escape: Main Menu
Selection: All records

Record 6 of 6  (6 selected)
=====
QS1: (T or F) _____ Protons and neutrons were considered elementary
QS2: particles until Wittgenstein's work in 1985.
QS3: -
      A: -
      XA: -
      B: -
      XB: -
      C: -
      XC: -
      D: -
      XD: -
      E: -
      XE: -
Subject(s): COSMOLOGY, quantum mechanics
Correct: False  Chapter: 5      Date Written: Oct 19 91      (Number): -
=====
Type entry or use ⌘ commands          207K Avail.
```

2. Select the questions for the test.
3. Number the questions.
4. Print the test and answer key.

To create an alternate form of the test, you only need to re-number and re-sort the items and print the new test and answer key.

### Establishing the Data Base

Use the template to create a separate data base file for each subject *area* (not subject *level*) you teach.

For example, elementary school teachers should enter all their science questions into one data base and all their history questions into a separate data base file. High school teachers lucky enough to teach only one subject area (e.g., English) should put all the questions in one file.

If you have enough desktop memory in your Apple, don't separate your questions by level or by topic. It is easier to find the items you want if you have to search fewer data base files.

### Entering Data

Figures 8-10 show how to enter several types of questions into the file. Note that the "answer" fields (A, XA, etc.) are left blank for true/false and fill-in-the-blank questions.

Do not enter a question number for the item. But always enter something (A, B, C, D, E, True, False, or the correct fill-in-the-blank word or phrase) into the "Correct" field.

The "Subject(s)" field serves as an index and keyword field to help you select questions for your test.

Save your data base frequently as you type your questions.

### Preparing a Test

Now you can prepare your test. Follow these steps:

1. Issue an Apple-N command and change the name of the data base to help you identify the test. (For example, use a name such as "MT.A" for "Mid-Term Exam, Form A".) AppleWorks will attach a date to the file when you save your work.
2. Use the Apple-R command to search the "Subject" and "Chapter" categories for the questions you will use.



## My Favorite Template...

3. Issue an Apple-Z command and switch to the multiple record layout. Then enter the number you will assign to each question.
4. Issue an Apple-R command and select all records with a blank in the "(Number)" category. Then delete those records.
5. Issue an Apple-A command and put the records in order based on their item number.
6. Print the report named "Test" to the screen so you can check your work. Ignore the A, B, C, D, and E lines for true/false and fill-in-the-blank questions.
7. Print the Answer Key Report first to the screen and then to the printer.
8. Print the Test Report "To the clipboard for the word processor". (If desktop space is inadequate, you can print the report to a disk file and then use the file to create a new AppleWorks word processor document.)
9. Create a new word processor document to accept the test items. Change the format of the document to 12 characters per inch and set the right margin to .5 inches. Those settings will print 77 characters per line, which will accommodate the maximum line length you established for the data base file.
10. Copy the test "From the clipboard".
11. Delete the blank lines labelled A:, B:, C:, D:, and E: for fill-in and true/false questions. You can develop a macro to make this job easy.
12. Insert the directions and other information at the beginning of the test. Use headers and/or footers to number the pages and put other information on each page.

Use the Group Begin and Group End Commands to keep AppleWorks from dividing items between pages. [Ed: See the article entitled "Getting Pages to Begin and End Where You

**Figure 10: A Fill-in-the-Blank Question**

File: Questions	REVIEW/ADD/CHANGE	Escape: Main Menu
Selection: All records		
Record 8 of 8 (8 selected)		
=====		
QS1: The computer's temporary memory is called _____-access		
QS2: memory.		
QS3: -		
A: -		
XA: -		
B: -		
XB: -		
C: -		
XC: -		
D: -		
XD: -		
E: -		
XE: -		
Subject(s): COMPUTER, Hardware		
Correct: RANDOM	Chapter: 2	Date Written: Nov 15 88 (Number): -
=====		
Type entry or use ⌘ commands		210K Avail.

*Want" in the December 1986 issue of the AppleWorks Forum and in the AppleWorks Handbook: Volume One.]*

13. Check the spelling of the document and print the test.
14. Save the data base and word processor files on a disk.

### Creating an Alternate Form

An alternate form of a test contains the same test items in a different order. The easiest way to create an alternate form is to reverse the order of the questions. Follow these steps:

1. Bring the data base file onto the desktop and rename the file.
2. Put the cursor on the "(Number)" category, issue an Apple-A command, and specify either reverse numerical order or reverse alphabetical order.
3. Repeat steps 3-14 above to renumber the items and print the alternate form of the test.

You can use other approaches to create an almost unlimited number of alternate forms. For example, you can sort the data base file alphabetically on the contents of any category. If your students have the time to figure out such obscure sorts, you are probably doing a wonderful job of teaching the subject.

## My Favorite Template...

### Conclusion

The versatility and power of AppleWorks continues to impress me. My desk at work houses a 386SX MS-DOS computer connected to a Hewlett-Packard minicomputer and networked to other resources. It is a fine outfit for my office. But this little AppleWorks template does more to help me prepare tests than any of the MS-DOS programs available at my office. It is an excellent template from a working professional.

*[Stan Hecker is on the administrative staff at Michigan State University, East Lansing, Michigan, and is a partner in H&H Consulting, a Michigan concern specializing in school district financial and population analyses. Mary D. Bromann is presently on leave from her position as computer resource teacher at Glenbrook North High School, Northbrook, Illinois.]*

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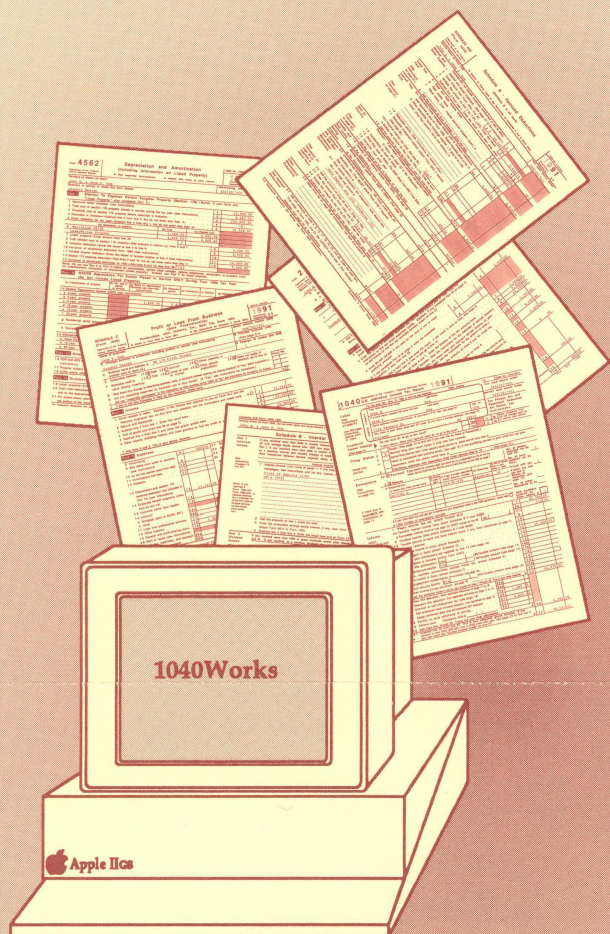
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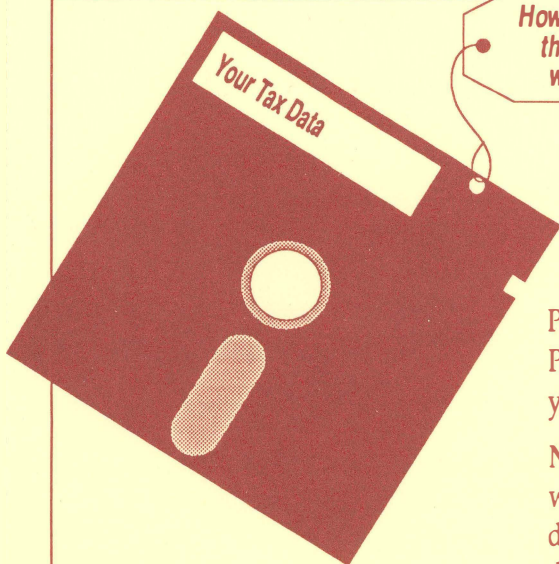
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by Ira M. Garvin

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LetterWorks accepts add-ons developed by ActaSoft, including DeskWorks (which lets you use your name and address data base as a Rolodex system and telephone dialer), AlphaCheck Plus (a small business accounting system), and Family Finance (a home accounting system). This article reviews the LetterWorks/DeskWorks system.

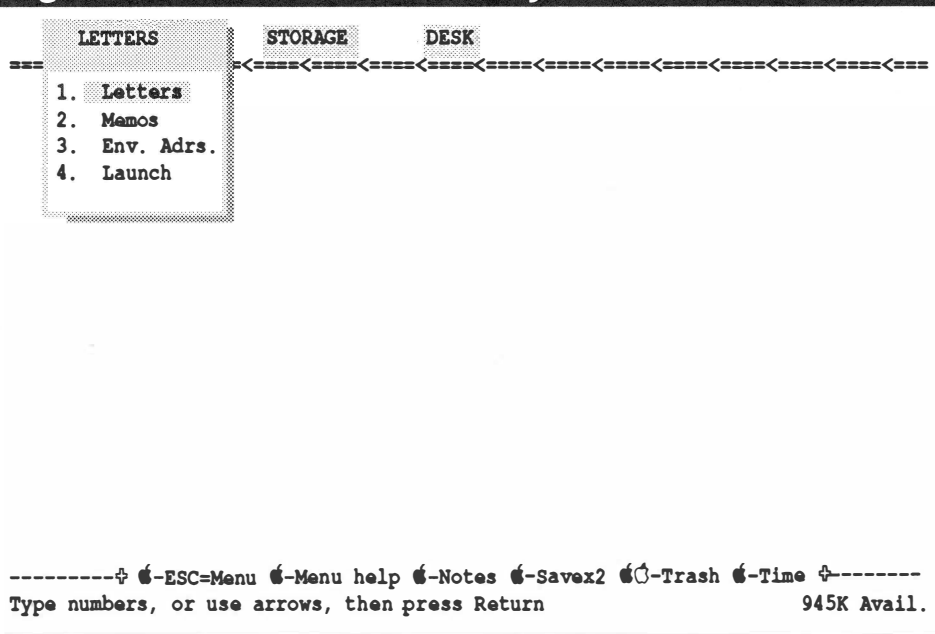
## The LetterWorks Environment

LetterWorks gives a different look and feel to AppleWorks as AppleWorks takes on a Macintosh-like appearance with a Menu Bar at the top of the screen. Selecting a choice on the Menu Bar opens a pull-down menu from which you invoke an action (see *Figure 1*).

## Writing a Letter

Writing a letter with LetterWorks is easy. You choose LETTERS from the LetterWorks Menu Bar

**Figure 1: LetterWorks Menu System**



**Figure 2: A Letter on the LetterWorks Screen**

```

File: John Doe                                REVIEW/ADD/CHANGE                                Escape: Main Menu
=====
December 10, 1991

John Doe
123 Anywhere Road
Somewhere
MI 48199

Dear [redacted]

-----␣-ESC=Menu ␣-Menu help ␣-Notes ␣-Savex2 ␣-Trash ␣-Time ␣-----

```

**Figure 3: A Memo on the LetterWorks Screen**

```

File: MEMO                REVIEW/ADD/CHANGE                Escape: Main Menu
=====
                                ^ M E M O

DATE:

December 10, 1991

FROM:

John Doe
123 Anywhere Street
Somewhere
MI 48199

SUBJECT:

-----+ Apple-ESC=Menu Apple-Menu help Apple-Notes Apple-Savex2 Apple-U-Trash Apple-Time +-----
    
```

Works word processor document with the date, name, inside address, and salutation in place on the screen (see *Figure 2*).

Preparing a memo is as easy as writing a letter. You choose MEMO from the Letters Menu and LetterWorks prepares an addressed document in the memo format that appears in *Figure 3*.

LetterWorks makes it easy to address an envelope. All you do is choose "EnvAdrs" from the Letters Menu and LetterWorks will send the recipient's name and address to your printer.

## The Other Functions

The Storage option on the Menu Bar makes it easy to create and use boilerplate text in AppleWorks. You can use this feature to save paragraphs for thank you notes, inquiry letters, late notices, parent letters, letters of introduction, and any other letters or documents that contain text you re-use from letter to letter. LetterWorks stores your text in a data base record and does not offer word wrap or other standard word processor features when you type your paragraph. This makes editing the text and correcting errors difficult; particularly if you want to add or delete phrases in the text. However, once entered into LetterWorks, using the boilerplate

**Figure 4: A Stored Record**

```

LETTERS    STORAGE    DESK
=====
--> Read
    2. Write
    3. Clean up

TITLE
(1) GETTYSBURG ADR
(2) GETTYSBURG ADR
(3) GETTYSBURG ADR
(4) GETTYSBURG ADR

A Title :John Doe
aaaf
aaCC Spoke with John about filter he needs for Galbraith System. I
APPC suggested a K32-A and indicated I'd send samples. Write a
CALF letter ASAP. I ordered sample sent from office on 12/6/91.
CAT/
DRAP Wife: Jane
DRAP Son: Mike (born 3/4/80)
GONE
Johr
JOKE
Choos

♦ CTRL-A Adds input box ♦
    
```

and indicate whether you want to use a stored address or new address.

If you choose "New address", LetterWorks prompts you to enter the data and lets you save the address in your file. Once saved, you can re-use the address in future letters.

If you choose "Stored address", LetterWorks prompts you for the name and creates an Apple-

paragraphs involves nothing more than selecting the "Write" option from the Storage Menu.

LetterWorks' Storage option lets you store information for later recall. Selecting "Get" from the Storage Menu presents a list of the items stored in your file. Choose the item you want to recall and LetterWorks displays a pop-up box containing the text stored in that record. Selecting "Write" from the Storage Menu writes the text into your docu-

## Software Review...

ment. You can use this system to store information about clients, track your telephone calls, and write reminders and notes. Each record can contain up to eight lines of text (see *Figure 4*).

The Desk option accesses DeskWorks, which adds automatic telephone dialing and a Rolodex file to your desktop (see *Figure 5*). The Rolodex file lets you enter and access names, addresses, and telephone numbers from within any AppleWorks document. The auto-dialer uses a Hayes-compatible modem to automatically dial the telephone number of anyone in your Rolodex file.

The Books option lets you access ActaSoft's AlphaCheck Plus or Family Finance programs for AppleWorks. These programs, which are extra cost options that work as stand alone products or within LetterWorks, make it easy to maintain your financial records, write checks, balance your checkbook, and prepare tax reports with AppleWorks. *[Ed: A review of AlphaCheck appears in the October 1989 issue of the AppleWorks Forum and a description of AlphaCheck Plus appears in the October 1990 issue of the newsletter.]*

### Other Features

LetterWorks offers other features that add value to this inexpensive product.

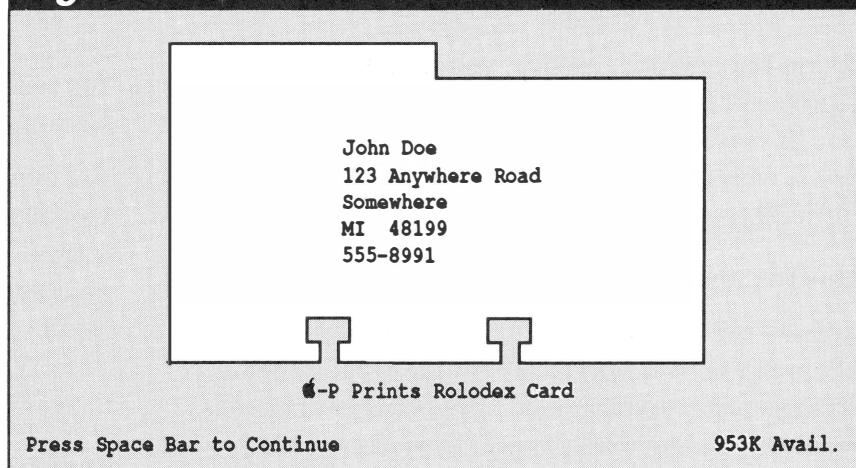
LetterWorks' built-in Backup function will automatically save two copies of your work. To back up a file, you issue a Solid Apple-S command from anywhere in AppleWorks and the program saves the current file on any two disks you specify.

LetterWorks' Trash feature is convenient and fast, but is a mixed blessing. Once you install LetterWorks, typing Both Apples-T deletes the file on the screen from the AppleWorks desktop, with no questions asked. Be careful about using this feature; being forewarned is to be forearmed.

### Some Trivial Features

LetterWorks offers some features that I find of limited utility. For example, LetterWorks will store the electronic equivalent of one Post-It note in your

**Figure 5: A Rolodex Record**



computer. You can create and recall the note at will, but you can't attach the note to a file or store more than one note.

LetterWorks contains a weekly calendar. But the calendar lacks the editing, tracking, flexibility, and other features one would expect in an electronic calendar.

LetterWorks will also print a series of horizontal lines or a box around a paragraph. I find it just as easy to draw the horizontal lines manually and the box is pre-sized and relatively inflexible.

### Ease of Use

Installing LetterWorks involves copying six files onto your AppleWorks 3.0 Program Disk. The process is easy if you store AppleWorks on a hard disk or 3.5-inch disk; more difficult if you run AppleWorks from 5.25-inch disks. If you have a problem, ActaSoft will install LetterWorks on your copy of AppleWorks for \$4.50 including postage.

To launch LetterWorks, you add the ZDATA file from the LetterWorks disk onto your AppleWorks desktop and launch the A.START task file from the Macro Options Menu. Experienced UltraMacros users will find the task easy; users new to UltraMacros will have to learn this new startup procedure.

Configuring LetterWorks for your system is not difficult, but the documentation is inadequate and you will probably find yourself calling ActaSoft for help getting started. Telephone support from ActaSoft is excellent; you end up talking with Don Aquilino, the developer of the product, who will

## Software Review...

walk you through the program and help you solve any problems you encounter.

Using LetterWorks is easy; you just type Solid-Apple and Both-Apple keystroke combinations as one does with any other macro application. It takes you a while to get used to the program, but it is not difficult to use.

### Documentation

Software developers have different philosophies about the need for documentation. ActaSoft subscribes to the "experiment with the program and learn-as-you-go" philosophy. Thus, the LetterWorks manual consists of only five pages of global instructions.

Although I found LetterWorks easy to use, the lack of adequate printed documentation was confusing and daunting. (There is more documentation than first appears, but finding it was a chore. Look in the LetterWorks Get Menu for a series of built-in help files.)

Don't try to learn LetterWorks when you are in a hurry. The developer's "learn-by-doing" philosophy turns you into an "explorer". Plan to spend an hour or two learning the nuances of the program before you can use it for productive applications.

### Limits

For all the convenience LetterWorks adds to AppleWorks, the product has definite limits. For example, the DeskWorks Dialer does not work with Apple IIGS computers equipped with daisy chained drives, which makes the dialer non-functional for most IIGS users.

The Read.Me file on the disk suggests that you will have to check LetterWorks' compatibility with any patches you install in AppleWorks. For example, LetterWorks is not compatible with the Applied Engineering clock patch, patches that changed the yes/no prompts, and early versions of Mark Munz's Patcher program.

LetterWorks disables UltraMacros' default macros and any macros you normally launch at bootup, including such powerful products as UltraAWsome Macros. Although you cannot run these macro-based products or customized macros within Let-

terWorks, the Launch option on the Letter Menu lets you switch between LetterWorks and your default macros or other macro-based applications. You will want to customize your macros so you can return to LetterWorks.

You don't need a mouse to use LetterWorks, but it does accept mouse input. Unfortunately, my mouse worked inconsistently with the product. I could navigate through the menus with the mouse and make choices from the LetterWorks Menu Bar. However, LetterWorks froze when I used the mouse to make choices from the Get Menu.

### Conclusion

LetterWorks is a useful macro-based utility that adds a Macintosh-like interface to AppleWorks and automates much of the drudgery associated with preparing letters and memos and addressing envelopes. Power users will enjoy exploring the features of this product and the macros that make it run. However, the program includes little printed documentation and will take some time to explore and learn.

*[Ira M. Garvin teaches Social Studies at West Hempstead (NY) High School. You can reach him as Teacher IMG on America Online.]*

*[LetterWorks lists for \$49.95 and DeskWorks retails for \$24.95. NAUG members can get both LetterWorks and DeskWorks directly from the developer for the combined price of \$39.95, plus \$3.50 s/h. Until January 31, NAUG members who buy LetterWorks and DeskWorks will get ActaSoft's Family Finance program free. (Family Finance is a check printing and financial management program that runs within LetterWorks.) Include your NAUG membership number with your order.]*

*NAUG members interested in studying or customizing the LetterWorks and DeskWorks task files can buy the source code for those files from ActaSoft for an additional \$10 per file.]*

*[ActaSoft, 19700 Wells Drive, Woodland Hills, California 91364; (818) 996-6731.]*



# Keep Multiple Copies of AppleWorks

by Randy Brandt

There was a time that you could buy any color car you wanted, as long as it was black. And there was a time when you could have any version of AppleWorks you wanted, as long as it was version 1.1.

But that was 1984. Now, eight years and five versions of AppleWorks later, the large selection of available AppleWorks patches and enhancements makes it rare that you find two power users running identical AppleWorks programs.

Although using a personalized version of AppleWorks can enhance your productivity, the uniqueness of your software can cause problems when you try to use AppleWorks enhancements and commercially developed macros. These products generally assume you have a “stock” version of AppleWorks and cannot accommodate the variety of patches and other enhancements you can install in your personalized copy of AppleWorks.

A solution to this problem is to keep multiple copies of AppleWorks on your 3.5-inch disks or hard disk. For example, you should keep an unmodified copy of AppleWorks on your disk. You can use that copy to check if patches, macros, and enhancements will run on an unenhanced copy of AppleWorks.

You should also keep a TimeOut-enhanced but otherwise unmodified copy of AppleWorks available to determine if a new product or patch conflicts with TimeOut.

Businesses can use a different copy of AppleWorks with each AppleWorks productivity program. For example, a business can keep a copy of AppleWorks on the same disk or subdirectory with Mr. Invoice. Floppy disk users can then boot their system with the Mr. Invoice-enhanced disk and launch directly into the invoicer. Hard disk owners can add INVOICE.SYSTEM to their program selector and be assured that the staff will use the correct version

of AppleWorks when they launch Mr. Invoice.

## Space Saving Suggestions

Storing multiple copies of AppleWorks on different disks or in separate subdirectories often uses less space than you think. Remember that you do not need to copy the complete AppleWorks disk onto each floppy or into each subdirectory. Certainly, you do not need the sample files from the original disk. You can also save space by only copying the memory manager necessary for your system. You do not even need files such as SEG.PR, which you used to configure AppleWorks for your system. [Ed: See the article entitled “How to Use AppleWorks 3.0 with 5.25-inch Disks” in the October 1989 issue of the **AppleWorks Forum** for a description of the size and role of every file on the AppleWorks disk.]

You can save significant amounts of disk space by storing only one copy of your spelling dictionaries on your hard disk or RAM disk. Programs such as SpellCopy let you patch your copies of AppleWorks so they find the spelling dictionaries in that one location.

Finally, you can configure your TimeOut installation so TimeOut looks in one location on your disk for all your TimeOut enhancements.

## Conclusion

New AppleWorks users might think it a burden to install and maintain different versions of AppleWorks. But anyone who has tried to debug conflicts between the different patches and enhancements installed on their system will immediately see the benefits of this arrangement.

[Randy Brandt, one of the authors of AppleWorks 3.0, is the owner of JEM Software, the author of TimeOut UltraMacros and many other TimeOut modules, and the editor of TimeOut Central, a disk-based resource for AppleWorks users.]

# How to Hide Your AppleWorks Screen

by Keith Johnson

**M**any AppleWorks users work at computers that are in public view at an office, in a classroom, or at home. When you leave your system, you may return to find your carefully prepared document in ruins or its contents made public by pairs of spying eyes.

NAUG member Gary Hayman developed two solutions to this problem. One is a macro that hides your AppleWorks screen from inquisitive visitors. Another is a macro that hides the screen and prevents tampering with the keyboard.

## Screen-Hider Macros

Hayman's "Black Magic" macro (see *Figure 1*) turns the screen white (or green, or whatever color you display on your system). Any keypress restores the document to the screen.

Hayman's "On Guard" macro (see *Figure 2*) blanks the screen and prevents tampering with the keyboard. You must type one of the two passwords defined in strings \$1 and \$2 to unlock and restore the screen. Anything else you type leaves the screen locked and generates an error beep. To

change the passwords, you change the strings before compiling the macro.

Both macros store spaces in variable \$1 and use the <msg> command to display the spaces on the screen. Although UltraMacros accepts up to eighty characters in a string variable, the macros do not work if you try to store all eighty spaces in \$1. Thus, Hayman puts forty spaces on the left half of the line and then forty additional spaces on the right side of the screen before repeating the loop and moving to the next line.

The "Black Magic" macro uses %J% control codes in the <msg> commands (lines 7 and 8) to turn on inverse. That displays the characters as black against a white background. Since the characters are spaces, all you see are inverse spaces and a black background.

## How to Use the Macros

Type the macros into a word processor file and compile the file with the Macro Compiler. Of course, you can add the macros to the word processor file that contains your default macros, compile

**Figure 1: Black Magic Macro**

```
B:<all
oa-q :
$1 = "          " :
x = 0 :
begin :
  if x = 24 then exit endif :
  msgxy 0, x : msg %J% + $1 :
  msgxy 40, x : msg %J% + $1 :
  x = x + 1 :
rpt :
x = key :
msgxy 0, 128 :
esc : esc>!
```

```
{ Define the macro.
}
{ Display the Desktop Index so the cursor jumps to the
}
{ bottom of the screen.
}
{ Store 40 spaces in variable $1.
}
{ Set the counter to zero.
}
{ Start a loop.
}
{ Exit the loop if you reach the bottom of the screen.
}
{ Blank the left 40 columns in the line.
}
{ Blank the right 40 columns in the line.
}
{ Increment the counter.
}
{ Repeat the loop.
}
{ Wait for a keypress and...
}
{ ...reset msgxy to its defaults.
}
{ Return to the AppleWorks file.
}
```

**Figure 2: On Guard Macro**

```

A:<all                                { Define the macro.                                }
oa-q :                                { Display the Desktop Index so the cursor jumps to the }
                                         { bottom of the screen.                                }
$1 = "turn on please" :                { Store a password in variable $1. Enter your password here. }
$2 = "TURN ON PLEASE" :                { Store alternate password in variable $2.                }
$3 = "                                " : { Store 40 blank spaces in variable $3.                    }
$4 = "ON GUARD by Gary Hayman" :       { Store this message in variable $4.                    }
x = 0 :                                { Set the counter to zero.                                }
begin :                                { Start the loop.                                          }
    if x = 24 then exit : endif :       { Exit the loop if you are at the bottom of the screen.  }
    msgxy 0, x : msg $3 :                { Blank the first 40 columns on the line.                }
    msgxy 40, x : msg $3 :              { Blank the second 40 columns on the line.                }
    x = x + 1 :                          { Increment the counter.                                  }
rpt :                                  { Repeat the loop.                                          }
msgxy 255, 5 : msg $4 :                 { Display the title message on the screen.                }
$0 = getstr 20 :                       { Store up to 20 typed characters into $0.                }
if $0 = $1 or $0 = $2 :                 { Check for match with either password.                    }
    then esc : esc :                    { Return to the AppleWorks file.                            }
    msgxy 0, 128 :                      { Reset msgxy to its defaults.                              }
    endmacro : endif :                  { End the macro.                                            }
bell :                                 { You typed the wrong password. Sound the bell.            }
x = 0 :                                 { Reset the counter.                                        }
rpt>!                                  { Go back to <begin>.                                       }

```

the file, and use Macro Options to save the result as your default set.

Both macros use the <msgxy> command and thus require AppleWorks 3.0 enhanced with Ultra-Macros 3.0 or later.

## Enhancements

Of course, you can customize Hayman's macros to suit your needs. For example, you can easily convert the Black Magic macro into a screen saver. That displays a blank screen that keeps the phosphors on your screen from "burning in" (darkening). Just follow these steps:

1. Delete "%J% +" from lines 7 and 8. The new lines read:  

```
msgxy 0, x : msg $1 :
msgxy 40, x : msg $1 :
```
2. Insert the statement `poke $10f2,0` before the line `$1 = " "` in the macro. This poke turns off the cursor. Otherwise a flashing cursor will appear at the bottom of the screen.
3. Insert the statement `poke $10f2,1` after the two <esc> tokens at the end of the macro. That will turn the cursor display on so you can see the

cursor when you return to AppleWorks.

Creating artistic displays is relatively easy. For example, to fill the screen with Open Apple symbols, follow the directions in steps 1-3 above and substitute the line

```
$1 = &AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA& :
```

for the third line in the Black Magic macro.

Replacing the A's with alternating V's and W's will display a restful gray screen.

You can even create large graphic designs using MouseText. But that will make your macros complicated and larger.

Finally, remember your passwords if you use On Guard. You will have to reset your computer if you forget them.

*[Keith Johnson is Associate Director of the Fleischmann Planetarium at the University of Nevada. Gary Hayman is a practicing hypnotherapist, chairman of two SIGs in the Washington Apple Pi users group, and the author of Magic File Cabinet, an AppleWorks data base enhancement reviewed in the November 1991 issue of the AppleWorks Forum.]*

# AppleWorks' Data Base Limits

by Mitchell Bernstein

---

*AppleWorks' limitations are real and sometimes differ from the specifications in the AppleWorks manual. This article explores one of the limitations of AppleWorks' data base module. Dan Verkade offers a sidebar that includes a patch that expands AppleWorks to accommodate more data in each record.*

---

The AppleWorks 3.0 manual states that AppleWorks will accept up to 2,048 characters in each data base record. However, the documentation is optimistic; my tests indicate that AppleWorks can accommodate far fewer than 2,000 characters. The number of characters you can actually store in a data base record depends on how you enter your data.

## Keyboard Limit

If you type data into AppleWorks, the program accepts approximately 1,000 characters per record. That is slightly fewer characters than it takes to fill a single record layout screen. However, the exact number of characters depends on the length of your category names and number of characters you enter into each field.

Figure 1 gives the approximate limits when you use short category names such as "1", "2", and "3". The data in that figure indicate that you can enter 30 characters into all 30 categories.

However, if you try to enter 35 characters per category, only 28 categories will accept all 35 characters. The 29th category will only accept 10 characters. The figure also shows the number of categories that will accept 40, 50, and 60 characters.

**Figure 1: Data Base Limits with Keyboard Entry**

<u>Number of Characters per Category</u>	<u>Number of Categories with Stated # of Characters</u>	<u>Number of Additional Characters</u>	<u>Maximum # of Characters per Record</u>
30	30	0	900
35	28	10	990
40	24	20	980
50	20	1	1,011
60	16	23	983

**Figure 2: Data Entry Limits — Text File**

<u>Number of Characters per Category</u>	<u>Number of Categories with Stated # of Characters</u>	<u>Total Characters per Record</u>
67	30	2,010
68	29	1,972
69	29	2,001
70	28	1,960
71	28	1,988
72	28	2,016
73	27	1,971
74	27	1,998
75	26	1,950
76	26	1,976
77	26	2,002

Although AppleWorks appears to accept characters beyond these limits, the "extra" characters disappear when you move to the next record or otherwise change what is on the screen. In addition, once you reach the approximately 1,000 character limit, the Apple- command no longer copies data from a previous record.



## A Patch that Expands AppleWorks 3.0

Mr. Bernstein's finding of different AppleWorks limits for accepting keyboard and transferred data is not surprising; SEG.DB uses two separate segments of program code to accept data from these different sources.

The AppleWorks code that imports data recognizes the intended 2,044 byte limit. However, the code that captures data from the keyboard only accepts 1,022 characters.

The specifications for AppleWorks 3.0 called for doubling that limit, and the documentation writers expected the programmers to meet that specification. Thus, the documentation describes a 2,048 character limit. (The true design limit was 2,044 characters; AppleWorks uses four bytes for its internal needs.)

However, the programmers forgot to change the limit within AppleWorks,

and the earlier 1,022 character limitation got carried forward into AppleWorks 3.0.

Here is a patch that corrects this error and lets you enter up to 2,044 characters in each data base record. Make certain that you install the patch on a *copy* of your working AppleWorks disk.

Follow these steps:

1. Get the BASIC “[J]” prompt on the screen. *[Ed: See page 17 of the December 1990 issue of the AppleWorks Forum for directions that describe how to launch BASIC.]*
2. Insert a backup copy of your AppleWorks Disk that contains the file SEG.DB.
3. Type PREFIX /APPLEWORKS (or the complete pathname to your copy of AppleWorks) and press the Return Key.

4. Type the following (press the Return Key after each line):

POKE 4096,252

POKE 4097,163

BSAVE SEG.DB,L2,B\$A84,A\$1000

AppleWorks 3.0 will now accept up to 2,044 characters in each data base record you enter from the keyboard. This is more data than will fit on the single record layout screen; you must add the additional characters using the multiple record layout.

— Dan Verkade

*[Dan Verkade developed this patch while writing DoubleData, an enhancement that modifies AppleWorks so it accepts up to 60 categories in each data base record.]*

## Clipboard and Text File Limit

AppleWorks can accept more data if you create your records from data on the clipboard or from a text file. Specifically, AppleWorks accepts approximately 2,000 characters per record if you enter your data into the first 30 columns in a spreadsheet, “print” the spreadsheet as a text file, and use the text file to create a new data base. Characters beyond this approximately 2,000 character limit do not appear in the data base file. (See *Figure 2* for the actual limits.)


Similar limits apply if you enter your data into a word processor document and transfer the data as a text file into the data base module or use the clipboard to transfer data into the data base module.

Note that AppleWorks will let you use text files or the clipboard to create data base files with more than 2,044 characters per record. However, the program will not let you load those files onto the AppleWorks desktop once you save them in AppleWorks format on your disk.

## Conclusion

We have all discovered work-arounds that let us use AppleWorks in ways never anticipated by the developers of the program. However, AppleWorks has real limits that must be respected.

*[Mitchell Bernstein teaches mathematics at the Philadelphia (PA) High School for Girls.]*

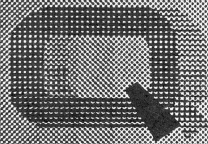


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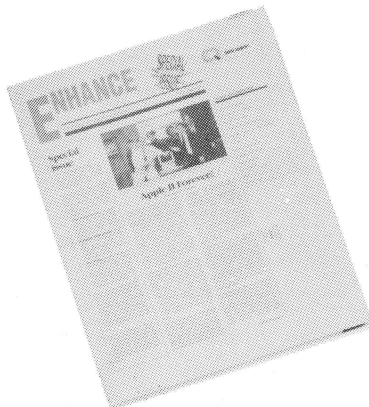


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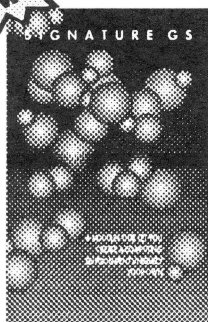
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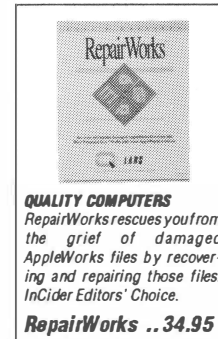
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# News and Special Offers

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## NAUG

NAUG recently announced the release of the 1992-1993 version of its Public Domain Library Catalog. The new, completely indexed, 64-page catalog describes 200 disks filled with more than 2,000 AppleWorks-compatible templates, utilities, enhancements, and fonts available from NAUG.

NAUG's new Public Domain Library Catalog costs \$5, which includes first class postage within North America and a \$2 rebate coupon valid for your next order. NAUG accepts Visa and MasterCard. Foreign orders by credit card only; foreign postage additional; specify surface or air delivery. *[National AppleWorks Users Group, Box 87453, Canton, Michigan 48187; (313) 454-1115; Fax: (313) 454-1965.]*

## FrankSoft Publishing

Asset Analysis is a well written and comprehensive spreadsheet template that analyzes your personal and professional assets over multiple years with time and "at risk" adjustments. Asset Analysis version V211 (which comes on a 5.25-inch disk and requires a 134K AppleWorks desktop) costs \$49.95; version E211 (which comes on a 3.5-inch disk and requires a 218K desktop) costs \$54.95.

Retirement Planner is FrankSoft's stand-alone AppleWorks spreadsheet template that calculates how much you should contribute to your retirement program to achieve stated goals and your future retirement benefits. Retirement Planner usually costs \$34.95. Until February 29, NAUG members who buy either version of Asset Analysis will get FrankSoft's Retirement Planner free.

FrankSoft accepts Visa and MasterCard and maintains a "satisfaction guaranteed or your money back" policy for NAUG members. Illinois residents must add 6.75% sales tax. Identify yourself as a NAUG member and give your NAUG membership number when you order. *[FrankSoft Publishing, 3300 33rd Avenue Court, Rock Island, Illinois 61201; (309) 788-6330; Fax (309) 788-7664.]*

## Husky Blue Software

Husky Blue Software recently announced special NAUG member prices for WriteWorks, the company's writing, planning, and study-aid system for AppleWorks.

WriteWorks consists of five data base templates, eight custom report formats, a set of macros, four sample files and complete documentation, including a comprehensive tutorial. WriteWorks helps writers, educators, and students systematically set goals for their writing, organize their information, create an outline, and enter bibliographic references. The custom reports make it easy to transfer information from the data bases to the word processor. Macros collapse and expand your outlines from one to five levels, strip unwanted carriage returns from rough drafts imported from the data bases, and reformat bibliographies into standard MLA style.

WriteWorks also includes templates to help you develop the plot and characters in your fiction writing.

WriteWorks lists for \$39.95. However, until April 1, NAUG members can buy WriteWorks directly from the developer for \$29.95 postpaid. WriteWorks comes with a ten day money back guarantee and an unlimited classroom site license for educators, including permission to distribute copies to students. Include your NAUG membership number and indicate whether you want 3.5 or 5.25-inch disk copies of the program when you order. Enclose payment with your order; the company does not accept credit cards.

*[Husky Blue Software, Suite 267, 4173 Main Street, Bridgeport, CT 06606; (203) 374-2692.]*

## JEM Software

JEM Software is now shipping its long awaited updates to three AppleWorks enhancements.

Mr. Invoice 2.0 is a complete invoicing system that runs within AppleWorks. A description of this

product appears on page 31 of the December 1990 issue of the *AppleWorks Forum*. Mr. Invoice 2.0 costs \$50 plus \$3 s/h.

Total Control 2.0 is a set of data base enhancements that give AppleWorks users many of the features usually found only in dedicated data base programs. Version 2.0 is faster, more powerful, and more stable than the earlier versions of this product. A description of Total Control appears on page 33 of the July 1991 issue of the *AppleWorks Forum*. A comprehensive review of Total Control will appear in a forthcoming issue of the *AppleWorks Forum*. Total Control 2.0 lists for \$60.

DoubleData 2.0 is an AppleWorks enhancement that lets you include up to 60 categories in an AppleWorks data base. A description of DoubleData 2.0 appears on page 33 of the July 1991 issue of the *AppleWorks Forum*. DoubleData 2.0 lists for \$40.

Until February 15, NAUG members can buy both Total Control 2.0 and DoubleData 2.0 for the combined price of \$80 plus \$3 s/h. You must indicate that you are a NAUG member and include your NAUG membership number with your order. All three JEM products require AppleWorks 3.0. JEM accepts Visa and MasterCard. Upgrades from earlier versions of these products cost \$10 per product plus \$3 s/h per order. Send your original disks with your upgrade order.

[JEM Software, 7578 Lamar Court, Arvada, Colorado 80003. Orders only: (303) 422-4856.]

### K-12 MicroMedia

NAUG members should contact K-12 MicroMedia, a large discount software dealer, for a free copy of the company's new 30-page Fall/Winter catalog.

[K-12 MicroMedia, 6 Arrow Road, Ramsey, New Jersey 07446; (800) 292-1997; In New Jersey: (201) 825-8888.]

### SuperWorks

SuperWorks is an AppleWorks work-alike that runs on IBM and other MS-DOS computers. The program offers word processor, data base, and a three-dimensional spreadsheet module. It also sup-

ports telecommunications but does not offer a spell checker.

Programmed in machine language, SuperWorks is fast, fits on a single 5.25-inch or 3.5-inch disk, and requires little system memory. The program runs on any MS-DOS system running MS-DOS 3.0 or higher.

SuperWorks can read AppleWorks files that you transfer to MS-DOS disks with Cross-Works, by using Apple File Exchange on a Macintosh, through direct connect cables, over a modem, or by uploading and then downloading the file from a bulletin board system. Step-by-step directions for these transfers appear in the article entitled "How to Transfer Files into AppleWorks" in the September 1988 issue of the *AppleWorks Forum*.

SuperWorks, which is copy protected through use of a required hardware key and comes with a 30 day money back guarantee, has a suggested list price of \$399.95 and sells for \$199.95. However, until March 1, NAUG members can buy SuperWorks directly from the developer for \$150 plus \$5 s/h. You must identify yourself as a NAUG member and provide your NAUG membership number when you order.

[Remarkable Technologies, 245 Pegasus Avenue, Northvale, New Jersey 07647. Orders only: (800) 782-1955. Technical information: (201) 784-0900. Fax: (201) 767-7463.]

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# New Disks in the NAUG Library

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### GSBug and Debugging Tools

The NAUG Public Domain Library now includes the latest version of Apple Computer's GSBug and Debugging Tools, a high powered, low-level debugger for Apple IIGS computers. Developers of 16-bit software should use GSBug to expedite bug tracking, shake out bad memory handles, and exercise GS/OS for IIGS-specific products.

GSBug and Debugging Tools comes on one 3.5-inch disk and costs \$6 plus \$2 s/h *per order*.

NAUG's license with Apple restricts our sales to NAUG members; please include your NAUG membership number with your order.

Complete documentation for the GSBug and Debugging Tools disk costs \$30 from the Apple Professional Developers Association (APDA), (800) 282-2732; Canada: (800) 637-0029; Foreign: (408) 562-3910. Our thanks to the User Group Connection at Apple Computer for providing this disk to the NAUG library.

### GS.PowerTools

GS.PowerTools is a collection of the best CDAs, NDAs, inits, and utilities available for the Apple IIGS. A list of the programs on the disk appears in the September 1991 issue of the *AppleWorks Forum*.

NAUG is now shipping an enhanced version of GS.PowerTools that includes "Big Edit Thing" (an NDA that serves as a word processor), and new versions of SuperDataPath (an NDA that sets a different default path for each desktop program you run under GS/OS), and Sneeze (a text-display, menu, and program launcher).

GS.PowerTools comes on one 3.5-inch disk and costs \$6 plus \$2 s/h *per order*.

Our thanks to Karl Bunker for updating this disk for NAUG.

### Sneeze

The NAUG Public Domain Library is now shipping version 2.0 of Sneeze, Karl Bunker's text-display, menu, and program launcher. Sneeze lets you navigate through disks and directories, launch BASIC.SYSTEM and 16-bit programs, print and/or display AppleWorks word processor files, copy files, and display a graphic file without launching the application used to create the file.

Version 2.0 of Sneeze offers improved handling of directories and file lists. For example, Sneeze 2.0 displays all documented file types, supports upper and lower case file names, and includes several other enhancements.

Our thanks to Karl Bunker for developing Sneeze and submitting the program to the NAUG library.

Sneeze comes on 5.25-inch (\$4) and 3.5-inch (\$6) disks, plus \$2 s/h *per order*. Apple IIGS owners who want Sneeze should get the GS.PowerTools Disk (see above), which includes Sneeze and 15 other powerful IIGS utilities.

### How to Get Disks

Order from Public Domain Library, NAUG, Box 87453, Canton, Michigan 48187; (313) 454-1115. NAUG accepts Visa and MasterCard. All NAUG disks (except system disks provided by Apple Computer) are also available for downloading from NAUG's electronic bulletin board (the Electronic Forum), and from the NAUG areas on CompuServe, America Online, and GENIE.

# Get Help with AppleWorks Applications and Telecommunications

by Nanette Luoma

## Applications/Telecommunications

### How to Use this List

Use this month's list to find help with AppleWorks applications and telecommunications. To the left of each volunteer's name are numbers indicating the enhancements that consultant supports. Volunteers are listed alphabetically by state.

- |                                    |                              |
|------------------------------------|------------------------------|
| 1 = Educational Applications       | 5 = Transfer Apple II to IBM |
| 2 = Business Applications          | 6 = NAUG's BBS               |
| 3 = Custom Printing                | 7 = CompuServe               |
| 4 = Transfer Apple II to Macintosh | 8 = America Online           |
|                                    | 9 = GEnie                    |

		City	Home	Work
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2	Clay Evitts	Tucson	602-885-9789	602-296-5491
1,2	Bill Holmes	Chandler	602-899-4841	602-786-7170

<b>California</b>				
2	Dan Balsley	San Ramon	415-829-5085	
9	James Davis	Hayward	415-489-7024	
2,7	David Gair	Los Angeles	213-469-9916	213-469-9916
1,2	Jim Gentilucci	Los Osos	805-528-5049	
2,4,5,9	Terry Higgins	Newark	415-745-7884	415-593-2500
2	Alan E. Kahn	San Anselmo	415-457-9827	
1-3	Berenice Maltby	Corona del Mar	714-640-7369	
2,3,8,9	Will Nelken	San Rafael	415-459-0845	415-456-1795
5,6,7	Jesus Orosco	Milpitas	408-270-1011	408-945-4344

<b>Colorado</b>				
8	Lyle Graff	Littleton	303-794-5970	303-977-4557
1,2	Geoff Hollingsworth	Morrison	303-697-9277	
2	John Lefebvre	Thornton	303-451-5558	303-457-2852
2	John Loren	Littleton	303-978-0603	
2,4,5,7,9	Stephen Reiss	Aspen	303-923-6172	303-923-6172

<b>Connecticut</b>				
5	Judson L. Day	Groton	203-445-6600	203-445-6600
1,2	William Delaney	Enfield	203-745-4048	203-749-8391
8,9	Martin Knight	Middletown	203-346-9698	203-347-8594

<b>Florida</b>				
8,9	H. Clay Bailey III	Jacksonville	904-744-2499	904-725-3477
1-3,6,8,9	Jeff Strichard	Ft. Lauderdale	305-587-9590	
1-5,7	Mike Ungerman	Oviedo	407-366-0060	407-366-0156

<b>Illinois</b>				
2,3	Mark Baniak	Park Ridge	312-825-6301	312-292-4116
1-3	George Duffey	Bloomington	708-894-0849	708-451-3106

<b>Indiana</b>				
1,5,8	Jack Countryman	Greensburg	812-663-4998	
3	Laura J. Kelley	Gwynneville	317-763-7290	

		City	Home	Work
<b>Iowa</b>				
2	Stephen May	Audubon	712-563-2925	712-563-4217

<b>Kansas</b>				
5	Kirk Nelsen	Pittsburg	316-232-6930	316-231-8100

<b>Kentucky</b>				
4,5	Donald L. Corson	Louisville	812-256-3517	502-473-3083
6,8,9	Dan Crutcher	Louisville	502-895-1476	502-895-2720

<b>Louisiana</b>				
1,3,6-8	Charles Fryling, Jr	Baton Rouge	504-766-3120	504-388-1473

<b>Maryland</b>				
1	Anthony R. Mattern	North East	410-658-4799	410-658-5535
2,3,4	Leon Raesly	College Park		301-220-3113
1,3-5,7-9	Ray L. Settle	Arnold	301-647-9192	301-887-0106
1,8	Woodrow Webster	Fallston	301-879-7034	301-887-0171

<b>Massachusetts</b>				
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<b>Michigan</b>				
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1	Michael McMinn	Swartz Creek	313-655-4442	313-232-6541
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1,3,6	Pete Ross	Wayne	313-728-8269	
1,3,7,8	Deborah Williams	Grosse Ile	313-671-0267	313-675-1550

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7	Dick Kenfield	Hopkins	612-938-4382	
1,2	Peter Zambino	St. Paul	612-690-0536	612-489-1459

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<b>Nebraska</b>				
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1,3,6-9	Larry B. McEwen	Hastings	402-463-2267	402-461-7550

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1	Frank R. Savory	Derry		603-434-5407
1	Bob Skinner	Plymouth	603-536-3626	

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1-2,6-9	Pete Crosta	Nutley	201-667-6369	201-677-4050
1-9	Jay Hubschman	Fairfield	201-575-1968	201-624-8046
1	Link Keur	Augusta	201-875-2568	201-992-7000
3,6,7,9	David Scott	Wall	201-531-0600	201-681-0600

<b>New Mexico</b>				
1	Willis George, Jr.	Albuquerque	505-897-4886	505-883-9743
1,4,5	David Selwyn	Las Cruces		505-522-7622
2,4	Gary Young	Corrales	505-897-1770	505-897-1770

# Applications/Telecommunications

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3	Ira M. Garvin	Oakdale	516-563-1253	516-489-7620
1,2,7-9	Carlos M. Madan	Morrisonville	518-562-0779	518-359-3322
9	Larry Merow	Sayville	516-567-0603	516-422-0315
1-3	James L. Nicoll	Pittsford	716-381-9480	716-546-6732
1,4,7,8	Jerry Taylor	Rochester	716-964-3319	
2,7	Terry Williamson	Orchard Park	716-662-5104	716-873-9750
<b>North Carolina</b>				
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<b>Ohio</b>				
4,7	Jason Chao	Cleveland Hts.	216-321-5451	216-844-3791
6,8,9	Don E. Fisher	Dayton	513-890-0428	513-461-2444
1	Jason Fogt	Lakeview	513-843-5779	
1	Carman Greco	St. Clairsville	614-695-5026	
1,2	Ltc. Robert Weis	Beavercreek	513-429-4169	513-257-6836
<b>Oregon</b>				
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1	M.W. Fox	Corvallis	503-754-7623	503-737-3628
2	Norma Gradwohl	Brownsville	503-466-5668	503-466-5668
1	Richard Millus	Medford	503-772-9787	
<b>Pennsylvania</b>				
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5	William D. Hall	Philadelphia	215-824-1160	215-441-0800
1	Rivka Rosenkrantz	Philadelphia	215-464-4725	215-493-1800
1	Charles R. Schultes	Lehighton	215-377-5169	215-377-6180
1,3,4,6-9	Bruce Shanker	Warminster	215-674-0118	
7	Hal Shapiro	Eagleville	215-630-8936	215-922-0500
<b>Rhode Island</b>				
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<b>Tennessee</b>				
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1,6,8,9	Bob Evridge	Knoxville	615-693-8817	615-693-9242
9	Joel Goldman	Nashville	615-352-3617	
<b>Texas</b>				
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7-9	Ramon Merlin	San Antonio	512-496-5331	
1	Paul Vranish	Alvin	713-388-2911	713-331-8151

		City	Home	Work
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1	Linda Metzke	Concord	802-748-3298	802-626-9371
<b>Virginia</b>				
1,5	Peter Pfeiffer	Hemdon	703-437-1985	703-834-3618
<b>Wisconsin</b>				
1,2	Debby Henning	Sharon	414-736-9229	
1,3	Peter Lee	Milwaukee		414-229-6660
1	Todd Novakofski	Ladysmith	715-532-7430	715-532-6202
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1,2,5	D.E. Bruce	Caringbah	2-527-4731	2-524-3859
<b>Canada</b>				
1,5,7	Michael Beebe	Victoria	604-477-4630	604-721-7954
4,6,7	Brian Elston	Bowmanville	416-436-2510	416-484-2600
4,5	Jim Low	Toronto	416 690-3943	416 690-3943
5	Jean Guy Mariage	Montreal	514-922-4566	514-252-2541
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4	Nick Van Helsdingen	Tranquillity Base	604-296-3260	
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5	Andrew C. Letchford	Plymouth	0752766435	44752766435
<b>France</b>				
1	Henry H. Marsh	Fontgny AuxRoses		(4)3.50.27.45
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2	Bernard Katz	Ramat Aviv	(03) 425-011	(03) 752-1133
<b>Saudi Arabia</b>				
4,5,9	Ken Bumell	Dhahran, 31311	3-878-9173	3-875-0051
1	James E. Hanushek	Dhahran, 31311	3-878-4075	3-877-1533
<b>Switzerland</b>				
1-4	Charles Kubler	Volketswig	01-945-5873	
<b>Venezuela</b>				
2-3,5	Omar Quintero	Caracas	02-241-1366	02-291-2526

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**New Keywords:** GSbug; debugging tools; Husky Blue Software; security systems; SuperWorks; WriteWorks



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NAUG

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### Corrections

December 1991, page 7: Replace the ")" in the macro at the bottom right-hand side of the page with a ">". The macro should read:

~:~awp oa-o>+b<rtm esc>Ø<oa-o>+E<rtm esc>!

### Classified Advertising

NAUG accepts classified advertisements in the *AppleWorks Forum*. These advertisements must meet the following criteria:

1. The individual's or company's name, address, and telephone number must be included in the advertisement.
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